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THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Inventors: Hisao KOGA, et al. Art Unit: 2631
Application No.: 10/669,592
Filed: September 23, 2003
For: COMMUNICATION APPARATUS

INFORMATION DISCLOSURE STATEMENT

Assistant Commissioner of Patents
Washington, DC 20231

Dear Sir:

Pursuant to Rules 56 and 99, Applicants hereby call the attention of the Patent Office to the art listed on the attached Form PTO 1449.

Applicants present this art so that the Patent Office may, in the first instance, determine any relevancy thereof to the presently claimed invention, see Beckman Instruments, Inc. v. Chemtronics, Inc., 439 F.2d 1369, 1380, 165 USPQ 355, 364 (5th Cir. 1970). Also see Patent Office Rules 104 and 106. Applicants respectfully request that this art be expressly considered during the prosecution of this application and made of record herein and appear among the "References Cited" on any patent to issue herefrom.

Respectfully submitted,

Reg # 31,689

Date: July 13, 2004

James E. Ledbetter
Registration No. 28,732

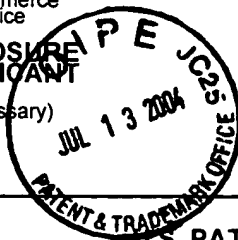
JEL/spp

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FORM PTO-1449 U.S. Department of Commerce
(Rev. 4/92) Patent and Trademark Office

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use several sheets if necessary)



ATTY. DOCKET NO.

L8612.04115

SERIAL NO.

10/669,592

APPLICANT

Hisao KOGA, et al.

FILING DATE

September 23, 2003

GROUP

2631

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE APPROPRIATE
	5 6 3 1 6 1 0	05/1997	Sandberg et al.			
	5 6 3 6 2 4 6	06/1997	Tzannes et al.			
	5 4 9 7 3 9 8	03/1996	Tzannes et al.			
	6 5 3 2 2 5 6	03/2003	Miller			
	5 9 9 5 5 3 9	11/1999	Miller			

FOREIGN PATENT DOCUMENTS

DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION
					YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

Henrique S. Malvar; "Signal Processing with Lapped Transforms," pp. 204-216.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.